

Enabling UPnP/NAT-PMP On A Siretta Router

UPnP stands for Universal Plug and Play and NAT-PMP stands for Network Address Translation Port Mapping Protocol. These are a set of networking protocols that allow networked devices to discover each other on the network and share data. As an example Printers, Cameras and gaming consoles all use UPnP / NAT-PMP to find each other on a network.

The following resources were used to create this document:

- QUARTZ-W22-UMTS (EU) + ACCESSORIES
- PC connected to a local area network.
- SIM card
- Camera

Configure the Router for UPnP

1. Insert SIM card into the Siretta Industrial Router (Example below uses a QUARTZ-W22-UMTS (EU))
2. Enter the APN details as provided by the SIM card provider (You can follow the router Quick Start Guide for more assistance with this).
3. Once the Router is connected to the mobile network you will see the connected status on the router's web interface (GUI) as seen below.

192.168.1.2/

Goldvision Olanca Intranet Google Office365



Cellular Router

Status

Overview

VPN

LAN

Device List

Basic Network

WLAN

Advanced Network

Firewall

VPN Tunnel

Administration

Debugging

Logout

Router

System Status

Router Name	Router
Hardware Version	C11-D20
Firmware Version	Router-4.3.4.1
Router Time	Mon, 24 Sep 2018 15:10:47 +0100 Clock Sync.
Uptime	00:56:57
Total / Free Memory	60.05 MB / 45.55 MB (75.86%)

Internet Status

Connection Type	Cellular Network
MAC Address	34:0A:08:10:20:23
Modem Type	3G-MU709S:WCDMA/HSPA+
Modem IMEI	2
Modem Status	Ready
USIM Select	USIM 1 Running
Cellular ISP	"EE"
Cellular Network	"WCDMA"
USIM Status	Ready
CSQ	12 (38%)
IP Address	10.136.164.143
Subnet Mask	255.255.255.255
Gateway	10.64.64.64
DNS	10.4.0.240:53, 10.4.0.230:53
Connection Status	Connected
Connection Uptime	00:56:14
Main Card Lease Time	
Back Card Lease Time	

4. Navigate to 'Advanced Network' > 'UPnP/NAT-PMP' on the router webpage "GUI".

5. Check the 'Enable UPnP' box

6. Check 'Inactive Rules Clearing' box and enter clearing interval in seconds.

NOTE: You can leave the clearing threshold as the default setting unless a change is required

7. Check the 'Secure Mode'.

8. Check the 'Show In My Network Places'.

Status

Basic Network

WLAN

Advanced Network

Port Forwarding

Port Redirecting

DMZ

IP Passthrough

Triggered

Captive Portal

linkCONNECT

UPnP/NAT-PMP

Bandwidth Control

VRRP

Static DHCP

Firewall

VPN Tunnel

Administration

Debugging

Logout

Forwarded Ports

Router

Ext Ports	Int Port	Internal Address	Protocol	Description
Delete All Refresh				

Settings

Enable UPnP ☒

Enable NAT-PMP ☐

Inactive Rules Cleaning ☒

Cleaning Interval seconds

Cleaning Threshold redirection

Secure Mode ☒ (when enabled, UPnP clients are allowed to add mappings only to their IP)

Show In My Network Places ☒

9. Click save and wait for the changes to take place.

10. The Router settings are now complete.

Configure the network devices for UPnP

1. Attach the network enabled device to the Router.

NOTE: Example uses a D-Link DSC-932L Network Camera

2. Login to the network camera using the device security settings.

3. Navigate to the network settings and check “Enable UPnP” and UPnP Port Forwarding as seen below.

PORT SETTINGS	
HTTP Port	8080

UPnP SETTINGS	
UPnP	☒ Enable ☐ Disable
UPnP Port Forwarding	☒ Enable ☐ Disable

4. Click save settings and wait for the changes to take place.

5. The settings on the camera are now complete.

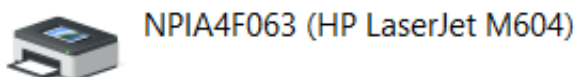
Testing the UPnP device on the network

1. Navigate to the Network Browser on the local PC connected to the network.
2. You will see the device (DCS-932L) listed with the other devices on network.
3. Users can access the device by clicking on the network device icon.

Other Devices (2)



Printers (1)



4. You can access the device locally by using the IP address assigned to the camera and the UPnP port address

NOTE: In this example the IP address is '192.168.1.51:8080'

5. You can access the device remotely by configuring your router with a public fixed IP SIM card. You can then login to the UPnP device on the remote network using the fixed IP address of the SIM card and the UPnP port address.

NOTE: Using this setup would allow you to install a remote camera in the required location and access it from your web browser using the fixed IP address of the SIM card in the Router and the UPnP port address of the camera.

Apple (MAC OS) support for UPnP

The Siretta Routers support NAT-PMP which is the Apple (Mac OS) version of UPnP.

The full range of Siretta Industrial Router products can be found from the following link:

<https://www.siretta.com/router-selector-tool/>

Any queries please contact support@siretta.com